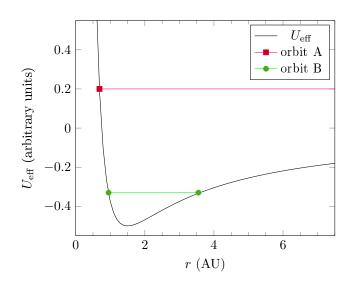
No documents allowed. The use of electronic devices is forbidden.

Questions using the sign  $\clubsuit$  may have zero, one or several correct answers and are worth 3 points. Questions using the sign  $\blacksquare$  require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



#### Question 1 Select your answer.

(A) Wrong

(D) Correct

B Wrong

(E) Wrong

C Wrong

# **Question 2** How big is $\pi$ ? Select the right interval. (2 points)

- $\bigcirc$  [0.75, 1.25]
- $\begin{array}{c|cccc} \hline \textbf{3} & [1.25, 1.75[ & \hline \textbf{C} & [1.75, 2.25[ \\ \hline \textbf{E} & [2.75, 3.25[ \\ \hline \end{array} ]$

# Question 3 Select your answer

(A) Wrong

(D) Wrong

(B) Wrong

© Correct

C Wrong

F Wrong

#### Question 4 Select your answer

(A) Wrong

D Wrong

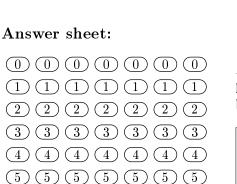
B Wrong

(E) Correct

C Wrong

F Wrong

Question 5	Select your answe	r		
(A) Wrong		(D)	neither, because	reasons.
(B) Wrong		Œ	) Correct	
© Wrong				
Question 6 the right interva		f the right answer to	o life, the universe	, and all the rest? Select
	D [8,	10[ G	[14, 16]	$\bigcirc$ [20, 22[
B [4,6[	<b>E</b> [10	12[ H	[16, 18]	(K) [22, 24[
C [6, 8[	F [12	14[ I	[18, 20]	igstyle [24, 26[
Question 7 🌲	Select your answ	vers.		
A Correct				
B Correct				
C Correct				
D Wrong				
(E) Wrong				
F None of th	ese answers are c	orrect.		
Question 8 🌲	Select your answ	vers		
(A) Wrong				
B Correct				
C Correct				
D Wrong				
© Correct				
F None of the	ese answers are c	orrect.		
TIL .	. 1.7	1 6 11		
There is no ?	right' answer for t	the following question	ns, therefore no po	ints will be awarded.
Question 9 I	How difficult was t	his quiz?		
Question 1				
•	easy B	© just fir	ne D	(E) too hard
•	v <u> </u>	© just fir	_	



  $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

irst and last name:	

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: A B C D E

QUESTION 2: A B C D E

Question 3: (A)(B)(C)(D)(E)(F)

QUESTION 4: (A) (B) (C) (D) (E) (F)

QUESTION 5: (A) (B) (C) (D) (E)

QUESTION 6: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L)

QUESTION 7: (A) (B) (C) (D) (E) (F)

QUESTION 8: (A) (B) (C) (D) (E) (F)

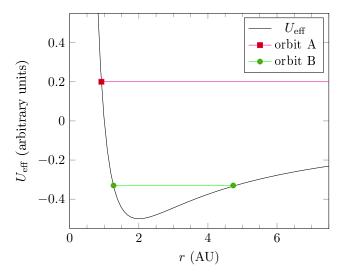
QUESTION 9: A B C D E

No documents allowed. The use of electronic devices is forbidden.

Questions using the sign A may have zero, one or several correct answers and are worth 3 points.

Questions using the sign require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

#### Consider the following effective potential:



**Question 1** How big is  $\pi$ ? Select the right interval. (2 points)

Question 2 Select your answer.

(A) Correct

(D) Wrong

B Wrong

(E) Wrong

C Wrong

- $\bigcirc$  [2, 4]
- $\bigcirc$  [8, 10]
- G [14,16]
- $\bigcup$  [20, 22]

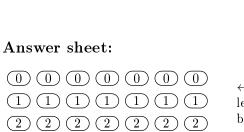
- B [4, 6]
- (E) [10, 12]
- H [16, 18]
- K [22, 24]

- $\bigcirc$  [6, 8]
- F [12, 14]
- I [18, 20]
- (L) [24, 26]

Question 4 & Select your answers.

- (A) Correct
- B Correct
- (C) Correct
- (D) Wrong
- (E) Wrong
- (F) None of these answers are correct.

Question 5	Select your answer	
(A) Wrong	(	D Wrong
B Wrong	(	E neither, because reasons.
C Correct		
Question 6	Select your answer	
(A) Correct	(	D Wrong
B Wrong	(	E Wrong
© Wrong	(	F Wrong
Question 7 🌲	Select your answers	
(A) Wrong		
B Correct		
C Correct		
① Correct		
© Wrong		
F None of t	these answers are correct.	
Question 8	Select your answer	
(A) Wrong	(	D Wrong
B Correct	(	E Wrong
© Wrong	(	F Wrong
There is no	'right' answer for the following que	stions, therefore no points will be awarded.
Question 9	How difficult was this quiz?	
(A) to	oo easy B C just	t fine D E too hard
Question 10	Do you prefer this type of quiz or	'regular' exam-like quizzes?
(A) regular	r B C either is f	fine D E multiple-choice



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Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: A B C D E

QUESTION 2: (A) (B) (C) (D) (E)

QUESTION 3: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L)

QUESTION 4: (A) (B) (C) (D) (E) (F)

QUESTION 5: (A) (B) (C) (D) (E)

QUESTION 6: (A) (B) (C) (D) (E) (F)

QUESTION 7: (A)(B)(C)(D)(E)(F)

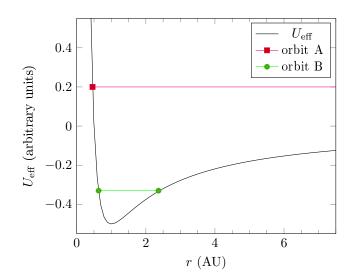
QUESTION 8: (A) (B) (C) (D) (E) (F)

QUESTION 9: A B C D E

No documents allowed. The use of electronic devices is forbidden.

Questions using the sign  $\blacksquare$  may have zero, one or several correct answers and are worth 3 points. Questions using the sign  $\blacksquare$  require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



Question 1 Select your answer.

A Correct

① Wrong

B Wrong

(E) Wrong

C Wrong

**Question 2** How big is  $\pi$ ? Select the right interval. (2 points)

- $\bigcirc$  [0.75, 1.25]
- $\boxed{3}$  [1.25, 1.75]  $\boxed{\mathbb{C}}$  [1.75, 2.25]

#### Question 4 Select your answer

(A) Wrong

(D) Correct

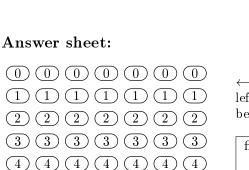
B Wrong

(E) Wrong

C Wrong

F Wrong

Question 5 & Select your answers	
(A) Correct	
B Correct	
© Wrong	
① Correct	
(E) Wrong	
(F) None of these answers are correct.	
Question 6 Select your answer	
(A) Wrong	① Wrong
B Wrong	E Wrong
© Correct	F Wrong
Question 7 Select your answer	
(A) neither, because reasons.	D Correct
B Wrong	E Wrong
© Wrong	
Question 8 🌲 Select your answers.	
(A) Wrong	
B Correct	
© Correct	
(D) Wrong	
E Correct	
(F) None of these answers are correct.	
There is no 'right' answer for the following qu	estions, therefore no points will be awarded.
Question 9 How difficult was this quiz?	
(A) too easy (B) (C) ju	ast fine D E too hard
Question 10 Do you prefer this type of quiz	r 'regular' exam-like quizzes?
A regular B C either is	s fine D E multiple-choice



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rst and last name:

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: A B C D E

QUESTION 2: A B C D E

QUESTION 3:

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9

QUESTION 4: (A) (B) (C) (D) (E) (F)

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6: (A) (B) (C) (D) (E) (F)

QUESTION 7: (A) (B) (C) (D) (E)

QUESTION 8: (A) (B) (C) (D) (E) (F)

QUESTION 9: A B C D E

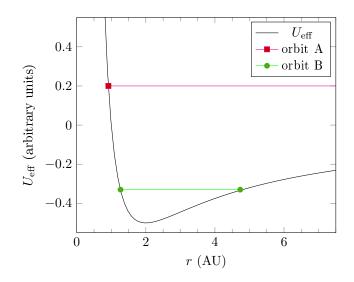
No documents allowed. The use of electronic devices is forbidden.

Questions using the sign ♣ may have zero, one or several correct answers and are worth 3 points.

Questions using the sign ■ require some calculation and are worth up to 5 points. Other

questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



# Question 1 Select your answer.

(A) Wrong

① Wrong

B Wrong

(E) Correct

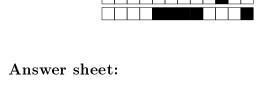
C Wrong

# **Question 2** How big is $\pi$ ? (2 points)

# Question 3 & Select your answers.

- (A) Wrong
- B Correct
- C Correct
- ① Wrong
- © Correct
- F None of these answers are correct.

Question 4 \$\infty\$ Select your answers					
(A) Wrong					
B Wrong					
C Correct					
D Correct					
E Correct					
F None of these answers are correct.					
Question 5 Select your answer					
(A) Wrong	① Correct				
B neither, because reasons.	E Wrong				
© Wrong					
Question 6 ■ What is half the right answe the value to one decimal. (5 points)	r to life, the universe, and all the rest? Calculate				
Question 7 Select your answer					
(A) Wrong	D Wrong				
B Wrong	E Wrong				
C Wrong	F Correct				
Question 8 Select your answer					
(A) Correct	D Wrong				
(B) Wrong	E Wrong				
© Wrong	F Wrong				
There is no 'right' answer for the following questions, therefore no points will be awarded.					
Question 9 How difficult was this quiz?					
(A) too easy (B) (C) ju	ast fine D E too hard				
Question 10 Do you prefer this type of quiz of	r 'regular' exam-like quizzes?				
A regular B C either is	s fine D E multiple-choice				



0	0	0	0	0	0	0
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$\bigcirc$						
3	3	3	3	3	3	3
$\bigcirc$ 4						
$\bigcirc$	$\bigcirc$	$\bigcirc$ 5	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	$\bigcirc$
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

 $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

irst and last name:	

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: A B C D E

QUESTION 2:

 $- \mid 0 \mid 1 \mid 2 \mid 3 \mid 4 \mid 5 \mid 6 \mid 7 \mid 8 \mid 9$ 

QUESTION 3: (A)(B)(C)(D)(E)(F)

QUESTION 4: (A) (B) (C) (D) (E) (F)

QUESTION 5: A B C D E

QUESTION 6:

QUESTION 7: A B C D E F

QUESTION 8: (A) (B) (C) (D) (E) (F)

QUESTION 9: (A) (B) (C) (D) (E)

# Voortgezette Mechanica (NS-350B)

Quiz 4

Duration: 20 minutes.

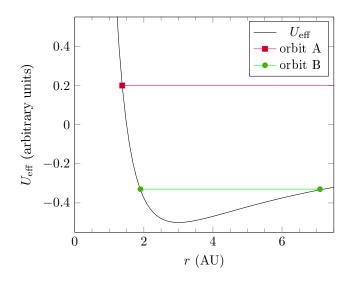
No documents allowed. The use of electronic devices is forbidden.

Questions using the sign ♣ may have zero, one or several correct answers and are worth 3 points.

Questions using the sign ■ require some calculation and are worth up to 5 points. Other

questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



**Question 1** How big is  $\pi$ ? (2 points)

Question 2 Select your answer.

(A) Wrong

(D) Wrong

(B) Wrong

(E) Correct

C Wrong

#### Question 4 & Select your answers

- (A) Correct
- (B) Correct
- C Wrong
- ① Wrong
- (E) Correct
- (F) None of these answers are correct.

#### Question 5 Select your answer

(A) neither, because reasons.

D Wrong

(B) Wrong

(E) Wrong

(C) Correct

Question 6	Select your answer		
(A) Correct	(J	O Wrong	
(B) Wrong		E) Wrong	
© Wrong		F) Wrong	
Question 7 ♣	Select your answers.		
(A) Correct			
B Wrong			
C Correct			
① Correct			
(E) Wrong			
F None of t	these answers are correct.		
Question 8	Select your answer		
(A) Correct	(I	O Wrong	
B Wrong		E) Wrong	
© Wrong		F) Wrong	
There is no	'right' answer for the following quest	ions, therefore no points wi	ll be awarded.
Question 9	How difficult was this quiz?		
(A) to	oo easy B C just	fine D E	too hard
Question 10	Do you prefer this type of quiz or 'n	egular' exam-like quizzes?	
(A) regular	r B C either is fin	ne D E	multiple-choice



#### Answer sheet:

0	0	0	0	0	0	0
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$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
3	3	3	3	3	3	3
$\overline{4}$	$\bigcirc$ 4					
$\bigcirc$	$\bigcirc$	<b>(5)</b>	<b>(5)</b>	$\bigcirc$	<b>(5)</b>	<b>(5)</b>
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8

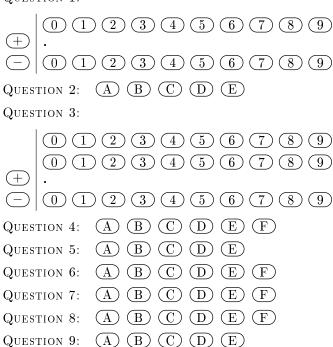
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 $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

first and last name:	

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

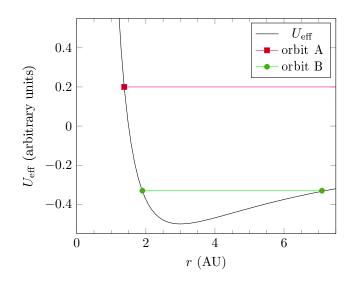
QUESTION 1:



No documents allowed. The use of electronic devices is forbidden. Questions using the sign  $\clubsuit$  may have zero, one or several correct answers and are worth 3 points.

Questions using the sign  $\blacksquare$  require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



**Question 1** How big is  $\pi$ ? Select the right interval. (2 points)

- $\bigcirc$  [0.75, 1.25]
- B [1.25, 1.75]
  - (E) [2.75, 3.25] (E) [1.75, 2.25]
- ① [2.25, 2.75[

Question 2 Select your answer.

(A) Wrong

(D) Correct

B Wrong

E Wrong

C Wrong

Question 4 Select your answer

(A) Correct

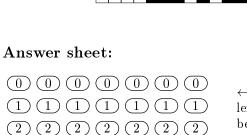
(D) Wrong

B Wrong

(E) neither, because reasons.

C Wrong

Question 5 🌲	Select your answ	vers				
(A) Wrong						
B Correct						
C Correct						
D Correct						
E Wrong						
F None of t	hese answers are c	orrect.				
Question 6	Select your answer	r				
(A) Wrong			D Wron	ıg		
B Wrong			E Wron	ıg		
© Wrong			F Corre	ect		
Question 7	Select your answer	r				
(A) Wrong			D Corre	ect		
B Wrong			(E) Wron	ıg		
C Wrong			F Wron	ıg		
Question 8 ♣	Select your answ	vers.				
(A) Correct						
B Wrong						
C Correct						
① Correct						
(E) Wrong						
F None of t	hese answers are c	orrect.				
There is no	'right' answer for t	he following q	uestions, the	erefore no po	oints wil	ll be awarded.
Question 9	How difficult was t	his quiz?				
(A) to	o easy B	© j	ust fine	D	E	too hard
Question 10	Do you prefer thi	s type of quiz	or 'regular' e	exam-like qı	uizzes?	
(A) regular	B	© either	is fine	D	E	multiple-choice



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 $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

first and last name:	

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: A B C D E

QUESTION 2: (A) (B) (C) (D) (E)

QUESTION 3:

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9

 $\begin{array}{c|c} + & \cdot \\ \hline - & 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{array}$ 

QUESTION 4: (A) (B) (C) (D) (E)

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6: (A) (B) (C) (D) (E) (F)

QUESTION 7: (A) (B) (C) (D) (E) (F)

QUESTION 8: (A) (B) (C) (D) (E) (F)

QUESTION 9: A B C D E

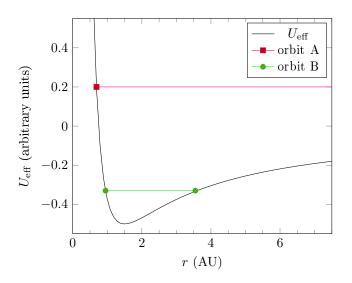
QUESTION 10: A B C D E

No documents allowed. The use of electronic devices is forbidden.

Questions using the sign \( \blackta \) may have zero, one or several correct answers and are worth 3 points.

Questions using the sign \( \blackta \) require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



**Question 1** How big is  $\pi$ ? Select the right interval. (2 points)

- $\bigcirc$  [0.75, 1.25[
- B [1.25, 1.75]
  - $\begin{array}{c}
    \hline
    C \\
    [2.75, 3.25]
    \end{array}$
- ① [2.25, 2.75[

Question 2 Select your answer.

(A) Wrong

(D) Wrong

B Wrong

(E) Correct

C Wrong

Question 3 Select your answer

(A) neither, because reasons.

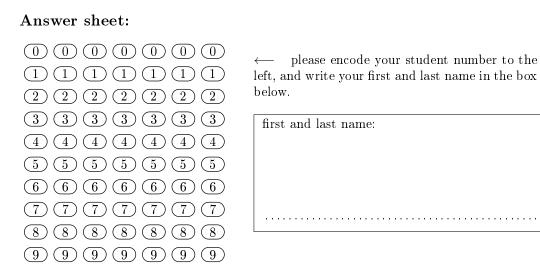
(D) Wrong

B Wrong

© Correct

C Wrong

Question 5 ♣ Select your answers
(A) Correct
(B) Wrong
© Wrong
(D) Correct
(E) Correct
(F) None of these answers are correct.
Question 6 & Select your answers.
(A) Wrong
(B) Correct
© Correct
(D) Correct
(E) Wrong
(F) None of these answers are correct.
Question 7 Select your answer
(A) Wrong (D) Wrong
(A) Wrong (B) Wrong (E) Wrong
B Wrong E Wrong
<ul><li>B Wrong</li><li>C Wrong</li><li>E Wrong</li><li>F Correct</li></ul>
B Wrong C Wrong F Correct Question 8 Select your answer
B Wrong C Wrong F Correct Question 8 Select your answer  D Correct
B Wrong C Wrong F Correct Question 8 Select your answer  A Wrong B Wrong E Wrong F Correct
B Wrong C Wrong F Correct Question 8 Select your answer  A Wrong B Wrong E Wrong F Correct
B Wrong C Wrong F Correct  Question 8 Select your answer  A Wrong B Wrong E Wrong F Wrong F Wrong F Wrong
B Wrong C Wrong F Correct  Question 8 Select your answer  A Wrong B Wrong E Wrong C Wrong F Correct  E Wrong F Wrong F Wrong F Wrong
B Wrong C Wrong F Correct  Question 8 Select your answer  A Wrong B Wrong E Wrong C Wrong F Wrong F Wrong  There is no 'right' answer for the following questions, therefore no points will be awarded.  Question 9 How difficult was this quiz?



Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: A B C D E

QUESTION 2: A B C D E

QUESTION 3: A B C D E

QUESTION 4:

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 . 0 1 2 3 4 5 6 7 8 9

QUESTION 5: (A) (B) (C) (D) (E) (F)
QUESTION 6: (A) (B) (C) (D) (E) (F)

QUESTION 7: (A) (B) (C) (D) (E) (F)

QUESTION 8: (A) (B) (C) (D) (E) (F)

QUESTION 9: (A) (B) (C) (D) (E)

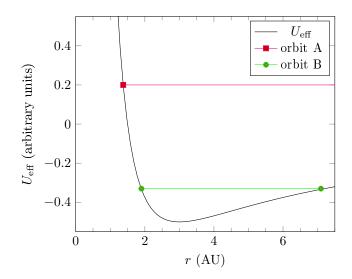
QUESTION 10: A B C D E

No documents allowed. The use of electronic devices is forbidden.

Questions using the sign ♣ may have zero, one or several correct answers and are worth 3 points.

Questions using the sign ■ require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



Question 1 Select your answer.

(A) Wrong

(D) Correct

B Wrong

(E) Wrong

C Wrong

**Question 2** How big is  $\pi$ ? Select the right interval. (2 points)

- (A) [0.75, 1.25[
- $\begin{array}{c|cccc} \textbf{B} & [1.25, 1.75[ & \textbf{C}) & [1.75, 2.25[ \\ & \textbf{E}) & [2.75, 3.25[ \end{array} ]$
- (D) [2.25, 2.75[

# Question 3 4 Select your answers

- (A) Wrong
- B Correct
- C Correct
- (D) Correct
- (E) Wrong
- (F) None of these answers are correct.

Question 5 Select your answer	
(A) Wrong	(D) Wrong
B Wrong	© Wrong
C Correct	F Wrong
Question 6 Select your answer	
(A) neither, because reasons.	(D) Wrong
B Wrong	© Correct
© Wrong	
Question 7 Select your answer	
(A) Wrong	(D) Wrong
(B) Wrong	(E) Correct
© Wrong	F Wrong
Question 8 . Select your answers.	
(A) Wrong	
B Correct	
© Wrong	
(D) Correct	
(E) Correct	
F None of these answers are correct.	
There is no 'right' answer for the following qu	nestions, therefore no points will be awarded.
Question 9 How difficult was this quiz?	
(A) too easy (B) (C) ju	st fine D E too hard
Question 10 Do you prefer this type of quiz of	or 'regular' exam-like quizzes?
(A) regular (B) (C) either is	s fine D E multiple-choice



#### Answer sheet:

0	0	0	0	0	0	0
$\bigcirc$	$\bigcirc$	1	1	1	1	$\bigcirc$
2	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	2
3	3	3	3	3	3	3
$\bigcirc$ 4						
<b>(5)</b>	$\bigcirc$	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	$\bigcirc$
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8

99999999

 $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

first and last name:	

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

Question 1: (A) (B) (C) (D) (E)

QUESTION 2: (A) (B) (C) (D) (E)

QUESTION 3: (A) (B) (C) (D) (E) (F)

QUESTION 4:

0 1 2 3 4 5 6 7 8 9

+

- | 0 1 2 3 4 5 6 7 8 9

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6: A B C D E

QUESTION 7: (A) (B) (C) (D) (E) (F)

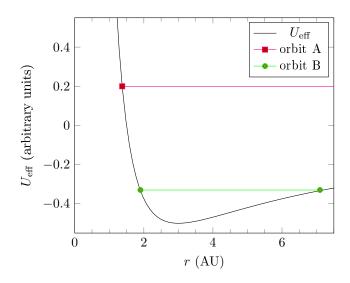
QUESTION 8: (A) (B) (C) (D) (E) (F)

QUESTION 9: A B C D E

No documents allowed. The use of electronic devices is forbidden. Questions using the sign & may have zero, one or several correct answers and are worth 3 points. Questions using the sign ■ require some calculation and are worth up to 5 points. Other

#### questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



How big is  $\pi$ ? Select the right interval. (2 points) Question 1

- [0.75, 1.25]B [1.25, 1.75] (E) [2.75, 3.25]
- $\bigcirc$  [1.75, 2.25]
- (D) [2.25, 2.75]

#### Question 2 Select your answer.

(A) Correct

(D) Wrong

B Wrong

E Wrong

C Wrong

#### Question 3 Select your answer

(A) Wrong

① Wrong

B Wrong

(E) neither, because reasons.

(C) Correct

#### Question 4 ♣ Select your answers

- (A) Wrong
- (B) Wrong
- (C) Correct
- (D) Correct
- (E) Correct
- (F) None of these answers are correct.

Question 5	Select your answer
(A) Wrong	(D) Wrong
B Correct	(E) Wrong
© Wrong	F Wrong
Question 6 the value to one	■ What is half the right answer to life, the universe, and all the rest? Calculate e decimal. (5 points)
Question 7 ♣	Select your answers.
(A) Correct	
B Wrong	
C Correct	
① Correct	
(E) Wrong	
(F) None of t	hese answers are correct.
Question 8	Select your answer
(A) Wrong	(D) Wrong
B Wrong	(E) Wrong
© Wrong	(F) Correct
There is no	'right' answer for the following questions, therefore no points will be awarded.
Question 9	How difficult was this quiz?
(A) to	oo easy B C just fine D E too hard
Question 10	Do you prefer this type of quiz or 'regular' exam-like quizzes?
(A) regular	(B) (C) either is fine (D) (E) multiple-choice



#### Answer sheet:

$\bigcirc \bigcirc$	0	0	0	0	0
$\bigcirc \bigcirc \bigcirc$	$\bigcirc$	1	1	1	1
2 2	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
3 3	3	3	3	3	3
4 4	$\bigcirc$ 4	$\bigcirc$ 4	$\bigcirc$ 4	$\bigcirc$ 4	$\bigcirc$ 4
$\boxed{5}\boxed{5}$	$\bigcirc$ 5	$\bigcirc$	<b>(5)</b>	$\bigcirc$	$\bigcirc$
6 6	6	6	6	6	6
7 7	7	7	7	7	7
88	8	8	8	8	8

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 $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

first and last name:	

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: (A) (B) (C) (D) (E)

QUESTION 2: (A) (B) (C) (D) (E)

QUESTION 3: (A) (B) (C) (D) (E)

QUESTION 4: (A) (B) (C) (D) (E) (F)

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6:

0123456789

+)|.

O 1 2 3 4 5 6 7 8 9

QUESTION 7: (A) (B) (C) (D) (E) (F)

QUESTION 8: (A) (B) (C) (D) (E) (F)

QUESTION 9: A B C D E

QUESTION 10: A B C D E

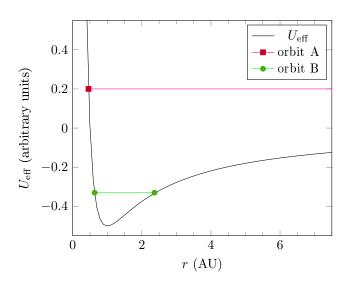
No documents allowed. The use of electronic devices is forbidden.

Questions using the sign ♣ may have zero, one or several correct answers and are worth 3 points.

Questions using the sign ■ require some calculation and are worth up to 5 points. Other

questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



**Question 1** How big is  $\pi$ ? (2 points)

Question 2 Select your answer.

A Wrong

(D) Wrong

(B) Correct

(E) Wrong

- © Wrong
- Question 3 Select your answer
- A Wrong

① Wrong

B Wrong

(E) Wrong

C Wrong

F Correct

Question 4 Select your answer

(A) Wrong

(D) Wrong

B Correct

(E) Wrong

© Wrong

F Wrong

Question 5 & Select your answers.
(A) Wrong
B Correct
C Correct
D Correct
(E) Wrong
F None of these answers are correct.
Question 6 ♣ Select your answers
A Correct
B Wrong
© Wrong
D Correct
E Correct
F None of these answers are correct.
Question 7 Select your answer
(A) neither, because reasons. (D) Correct
B Wrong E Wrong
© Wrong
Question 8 ■ What is half the right answer to life, the universe, and all the rest? Calculate the value to one decimal. (5 points)
There is no 'right' answer for the following questions, therefore no points will be awarded.
Question 9 How difficult was this quiz?
(A) too easy (B) (C) just fine (D) (E) too hard
Question 10 Do you prefer this type of quiz or 'regular' exam-like quizzes?
A regular B C either is fine D E multiple-choice

# Answer sheet:

$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0
$\bigcirc$	$\bigcirc$	$\bigcirc$	1	1	1	$\bigcirc$
$\bigcirc$						
3	3	3	3	3	3	3
$\bigcirc$ 4						
$\bigcirc$ 5	$\bigcirc$ 5	$\bigcirc$ 5	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	$\bigcirc$ 5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

 $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

first and last	name:

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

# QUESTION 1:

QUESTION 3: A B C D E F

QUESTION 4: A B C D E F

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6: (A) (B) (C) (D) (E) (F)

Question 7: (A) (B) (C) (D) (E)

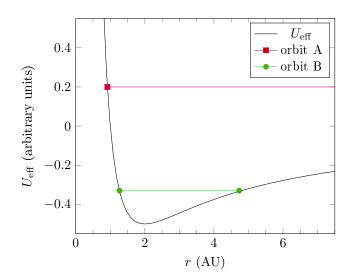
QUESTION 8:

QUESTION 9: (A) (B) (C) (D) (E)

No documents allowed. The use of electronic devices is forbidden.

Questions using the sign  $\clubsuit$  may have zero, one or several correct answers and are worth 3 points. Questions using the sign  $\blacksquare$  require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



**Question 1** How big is  $\pi$ ? Select the right interval. (2 points)

Question 2 Select your answer.

(A) Wrong

(D) Wrong

B Wrong

(E) Correct

C Wrong

Question 3 Select your answer

A Wrong

(D) Correct

B Wrong

E Wrong

C Wrong

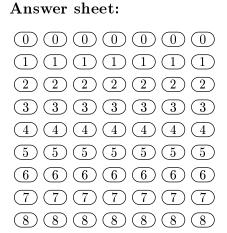
F Wrong

- $\bigcirc$  [2, 4[
- D [8, 10[
- G [14,16[
- $\bigcup$  [20, 22]

- B [4, 6]
- (E) [10, 12]
- H [16, 18]
- (K) [22, 24[

- $\bigcirc$  [6, 8]
- F [12, 14]
- I [18, 20]
- (L) [24, 26]

Question 5 ♣ Select your answers								
(A) Correct								
(B) Wrong								
© Wrong								
(D) Correct								
(E) Correct								
F None of these answers are correct.								
Question 6 & Select your answers.								
(A) Correct								
(B) Wrong								
© Correct								
(D) Wrong								
(E) Correct								
F None of these answers are correct.								
Question 7 Select your answer								
(A) Wrong (D) Wrong								
B Wrong E Wrong								
© Wrong F Correct								
Question 8 Select your answer								
(A) Wrong (D) neither, because reasons.								
B Wrong E Correct								
© Wrong								
There is no 'right' answer for the following questions, therefore no points will be awarded.								
Question 9 How difficult was this quiz?								
(A) too easy (B) (C) just fine (D) (E) too hard								
Question 10 Do you prefer this type of quiz or 'regular' exam-like quizzes?								
(A) regular (B) (C) either is fine (D) (E) multiple-choice								



99999999

 $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: (A) (B) (C) (D) (E)

QUESTION 2: (A) (B) (C) (D) (E)

QUESTION 3: A B C D E F

QUESTION 4: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L)

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6: (A) (B) (C) (D) (E) (F)

QUESTION 7: (A) (B) (C) (D) (E) (F)

QUESTION 8: (A)(B)(C)(D)(E)

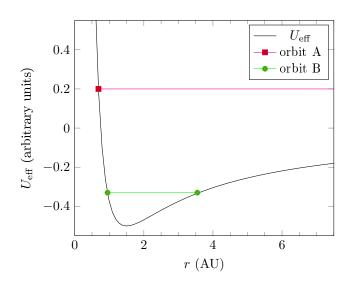
QUESTION 9: A B C D E

No documents allowed. The use of electronic devices is forbidden.

Questions using the sign \( \blackta \) may have zero, one or several correct answers and are worth 3 points.

Questions using the sign \( \blackta \) require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

# Consider the following effective potential:



Question 1 Select your answer.

(A) Wrong

① Wrong

(B) Correct

(E) Wrong

© Wrong

**Question 2** How big is  $\pi$ ? Select the right interval. (2 points)

- $\bigcirc$  [0.75, 1.25]
- B [1.25, 1.75] C [1.75, 2.25]
  - 5[

(D) [2.25, 2.75]

- $\bigcirc$  [2, 4]
- D [8, 10]
- (G) [14,16]
- $\bigcup$  [20, 22]

- B [4, 6]
- (E) [10, 12]
- H [16, 18]
- (K) [22, 24]

- $\bigcirc$  [6, 8]
- (F) [12, 14]
- (1) [18, 20]
- (L) [24, 26]

Question 4 Select your answer

(A) Wrong

D Wrong

B Wrong

(E) Correct

C Wrong

F Wrong



0	0	0	0	0	0	0
$\bigcirc$	$\bigcirc$	1	1	1	$\bigcirc$	$\bigcirc$
	$\bigcirc$					
3	3	3	3	3	3	3
$\bigcirc$ 4						
$\bigcirc$	$\bigcirc$ 5	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	$\bigcirc$	$\bigcirc$
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

 $\leftarrow$  please encode your student number to the left, and write your first and last name in the box below.

$_{\rm first}$	and	last	nam	ıe:			

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: (A) (B) (C) (D) (E)

QUESTION 2: A B C D E

QUESTION 3: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L)

QUESTION 4: A B C D E F

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6: A B C D E

QUESTION 7: (A) (B) (C) (D) (E) (F)

QUESTION 8: A B C D E F

QUESTION 9: (A) (B) (C) (D) (E)

Duration: 20 minutes.

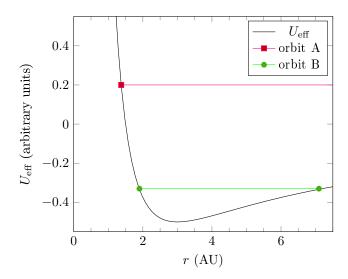
No documents allowed. The use of electronic devices is forbidden.

Questions using the sign ♣ may have zero, one or several correct answers and are worth 3 points.

Questions using the sign ■ require some calculation and are worth up to 5 points. Other

questions have a single correct answer and are worth 2 points.

## Consider the following effective potential:



Question 1 Select your answer.

(A) Wrong

(D) Correct

B Wrong

(E) Wrong

C Wrong

## **Question 2** How big is $\pi$ ? (2 points)

## Question 3 Select your answer

(A) Wrong

(D) Wrong

B neither, because reasons.

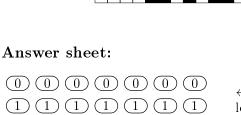
E Wrong

C Correct

#### Question 4 & Select your answers.

- (A) Correct
- B Correct
- C Correct
- D Wrong
- (E) Wrong
- F None of these answers are correct.

Question 5 & Select	your answers		
A Correct			
B Wrong			
C Correct			
D Wrong			
E Correct			
F None of these ansu	vers are correct.		
Question 6 Select ye	our answer		
(A) Wrong		① Wrong	
B Correct		(E) Wrong	
© Wrong		F Wrong	
Question 7 Select ye	our answer		
(A) Wrong		(D) Wrong	
B Correct		(E) Wrong	
© Wrong		F Wrong	
Question 8 We the right interval. (5 points)	That is half the right answnts)	wer to life, the universe,	and all the rest? Select
(A) [2,4[	D [8, 10[	(G) [14,16[	$\bigcup [20, 22[$
B [4,6[	(E) [10, 12[	H [16, 18]	(K) [22, 24]
© [6, 8[	$\bigcirc$ [12, 14]	[18,20]	(L) [24, 26]
There is no 'right' an	nswer for the following qu	estions, therefore no poin	nts will be awarded.
Question 9 How diffi	cult was this quiz?		
(A) too easy	B C ju	ast fine D	(E) too hard
Question 10 Do you	prefer this type of quiz o	or 'regular' exam-like quiz	zzes?
(A) regular (I	B C either is	s fine D	E multiple-choice



(2) (2) (2) (2) (2) (3) (3) (3) (3) (3) (3) (3)

4 4 4 4 4 4 4

5 5 5 5 5 5

8888888

9999999

 $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

first and last name:	

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: (A) (B) (C) (D) (E)

QUESTION 2:

<u>-</u> 0 1 2 3 4 5 6 7 8 9

QUESTION 3: A B C D E

QUESTION 4: A B C D E F

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6: A B C D E F

QUESTION 7: (A) (B) (C) (D) (E) (F)

QUESTION 8: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L)

QUESTION 9: A B C D E

QUESTION 10: A B C D E

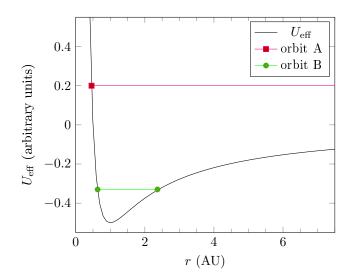
Duration: 20 minutes.

 $No\ documents\ allowed.\ The\ use\ of\ electronic\ devices\ is\ forbidden.$ 

Questions using the sign \( \blackta \) may have zero, one or several correct answers and are worth 3 points.

Questions using the sign \( \blackta \) require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

## Consider the following effective potential:



## Question 1 Select your answer.

(A) Wrong

(D) Wrong

B Wrong

© Correct

C Wrong

## **Question 2** How big is $\pi$ ? Select the right interval. (2 points)

- (A) [0.75, 1.25]
- B [1.25, 1.75] E) [2
- (C) [1.75, 2.25] [2.75, 3.25]

#### Question 3 Select your answer

A Wrong

D Wrong

B Wrong

E Wrong

(C) Correct

F Wrong

## Question 4 & Select your answers

- A Wrong
- B Correct
- C Wrong
- (D) Correct
- (E) Correct
- (F) None of these answers are correct.

Question 5 & Select	your answers.		
(A) Wrong			
B Correct			
C Correct			
D Wrong			
E Correct			
F None of these answ	vers are correct.		
Question 6 Select ye	our answer		
(A) Correct		① Wrong	
B Wrong		(E) Wrong	
© neither, because re	asons.		
Question 7 Select ye	our answer		
(A) Wrong		(D) Wrong	
B Wrong		(E) Wrong	
© Wrong		F Correct	
Question 8 When the right interval. (5 points	_	nswer to life, the universe,	and all the rest? Select
(A) [2,4[	D [8, 10[	(G) [14,16[	$\bigcirc$ [20, 22[
B [4, 6[	<b>E</b> [10, 12[	H [16, 18]	$\bigcirc$ K [22, 24[
© [6, 8[	$\bigcirc$ [12, 14[	$\boxed{I}$ [18, 20[	$\bigcirc$ L [24, 26[
There is no 'right' an	swer for the following	questions, therefore no po	ints will be awarded.
Question 9 How diffi	cult was this quiz?		
(A) too easy	B	just fine D	(E) too hard
Question 10 Do you	prefer this type of qui	z or 'regular' exam-like qu	izzes?
(A) regular (E	C eithe	r is fine D	E multiple-choice



## Answer sheet:

0	0	0	0	0	0	0
1	1	1	1	1	1	1
$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
3	3	3	3	3	3	3
$\bigcirc$ 4	$\bigcirc$ 4	$\bigcirc$ 4	$\bigcirc$ 4	4	$\bigcirc$ 4	$\bigcirc$ 4
<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

 $\leftarrow$  please encode your student number to the left, and write your first and last name in the box below.

$_{\rm first}$	and	last	nam	ıe:			
					 	 	 i

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: (A) (B) (C) (D) (E)

QUESTION 2: (A) (B) (C) (D) (E)

QUESTION 3: (A) (B) (C) (D) (E) (F)

QUESTION 4: (A) (B) (C) (D) (E) (F)

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6: A B C D E

Question 7: (A)(B)(C)(D)(E)(F)

Question 8: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L)

QUESTION 9: A B C D E

QUESTION 10: (A) (B) (C) (D) (E)

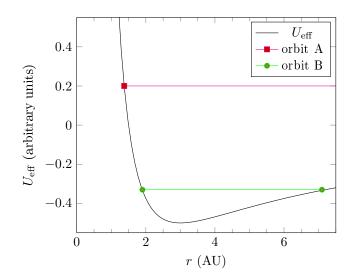
Duration: 20 minutes.

No documents allowed. The use of electronic devices is forbidden.

Questions using the sign A may have zero, one or several correct answers and are worth 3 points.

Questions using the sign require some calculation and are worth up to 5 points. Other questions have a single correct answer and are worth 2 points.

## Consider the following effective potential:



Question 1 Select your answer.

(A) Wrong

(D) Wrong

B Wrong

(E) Wrong

C Correct

**Question 2** How big is  $\pi$ ? (2 points)

Question 3 & Select your answers.

- (A) Correct
- (B) Wrong
- (C) Correct
- (D) Correct
- (E) Wrong
- F None of these answers are correct.

#### Question 5 Select your answer

A Wrong

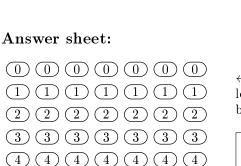
(D) neither, because reasons.

(B) Correct

(E) Wrong

(C) Wrong

Question 6	Select your answer		
(A) Wrong	(J	D Wrong	
B Wrong		E) Wrong	
C Correct		F) Wrong	
Question 7	Select your answer		
(A) Wrong		D Wrong	
B Wrong		E) Wrong	
© Wrong		F Correct	
Question 8 ♣	Select your answers		
(A) Wrong			
B Correct			
C Correct			
D Wrong			
© Correct			
F None of t	these answers are correct.		
There is no	'right' answer for the following quest	ions, therefore no points wil	ll be awarded.
Question 9	How difficult was this quiz?		
(A) to	oo easy B C just	fine D E	too hard
Question 10	Do you prefer this type of quiz or 'n	regular' exam-like quizzes?	
A regular	r B C either is fin	ne D E	multiple-choice



  $\longleftarrow$  please encode your student number to the left, and write your first and last name in the box below.

irst and last name:	

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: A B C D E

QUESTION 2:

(1) (1) (2) (3) (4) (5) (6) (7) (8) (9) (+)

O 1 2 3 4 5 6 7 8 9

Question 3: (A)(B)(C)(D)(E)(F)

Question 4:

- | 0 1 2 3 4 5 6 7 8 9

QUESTION 5: (A) (B) (C) (D) (E)

QUESTION 6: A B C D E F

QUESTION 7: (A) (B) (C) (D) (E) (F)

QUESTION 8: (A) (B) (C) (D) (E) (F)

QUESTION 9: A B C D E

QUESTION 10: A B C D E

 $Duration:\ 20\ minutes.$ 

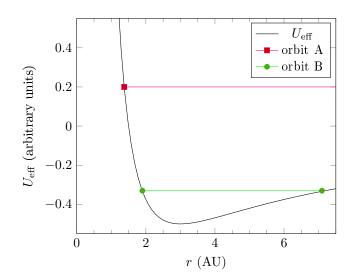
No documents allowed. The use of electronic devices is forbidden.

Questions using the sign ♣ may have zero, one or several correct answers and are worth 3 points.

Questions using the sign ■ require some calculation and are worth up to 5 points. Other

questions have a single correct answer and are worth 2 points.

## Consider the following effective potential:



## Question 1 Select your answer.

(A) Wrong

① Wrong

B Wrong

(E) Correct

C Wrong

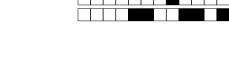
## **Question 2** How big is $\pi$ ? Select the right interval. (2 points)

- $\bigcirc$  [0.75, 1.25]
- B [1.25, 1.75] E [2.75]
  - $\begin{array}{c}
    \hline{\text{C}} & [1.75, 2.25] \\
    [2.75, 3.25] & \end{array}$
- $\bigcirc$  [2.25, 2.75[

# Question 3 4 Select your answers

- (A) Wrong
- B Correct
- C Correct
- (D) Correct
- (E) Wrong
- F None of these answers are correct.

Question 4 & Selec	ct your answers.		
A Correct			
B Wrong			
© Wrong			
D Correct			
E Correct			
F None of these an	nswers are correct.		
Question 5 Select	your answer		
(A) Wrong		D Wrong	
B Wrong		© Correct	
© Wrong		F Wrong	
Question 6 Select	your answer		
(A) Wrong		D Wrong	
B Correct		(E) neither, because r	easons.
© Wrong			
Question 7 the right interval. (5 p	What is half the right ansociuts)	wer to life, the universe,	and all the rest? Select
(A) [2,4[	D [8, 10[	G [14,16[	$\bigcirc$ [20, 22[
B [4,6[		H [16, 18[	$\bigcirc$ [22, 24[
C [6, 8[	$\bigcirc$ [12, 14[	I [18, 20[	
Question 8 Select	your answer		
A Correct		D Wrong	
B Wrong		(E) Wrong	
© Wrong		F Wrong	
There is no 'right'	answer for the following qu	nestions, therefore no poi	nts will be awarded.
Question 9 How di	ifficult was this quiz?		
(A) too easy	B C ju	ust fine D	(E) too hard
Question 10 Do yo	ou prefer this type of quiz o	or 'regular' exam-like qui	zzes?
(A) regular	B C either i	s fine D	(E) multiple-choice



## Answer sheet:

0	0	0	0	0	0	0
1	1	1	1	$\bigcirc$	1	$\bigcirc$
$\bigcirc$						
3	3	3	3	3	3	3
$\bigcirc$ 4						
$\bigcirc$ 5	$\bigcirc$	$\bigcirc$	<b>(5)</b>	<b>(5)</b>	$\bigcirc$	<b>(5)</b>
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

← please encode your student number to the left, and write your first and last name in the box below.

$_{\rm first}$	and	last	nam	ıe:			
					 	 	 i

Answers must be given exclusively on this sheet: answers given on the other sheets will be ignored. Please fill the boxes completely.

QUESTION 1: (A) (B) (C) (D) (E)

QUESTION 2: (A) (B) (C) (D) (E)

QUESTION 3: (A) (B) (C) (D) (E) (F)

QUESTION 4: (A) (B) (C) (D) (E) (F)

QUESTION 5: (A) (B) (C) (D) (E) (F)

QUESTION 6: A B C D E

Question 7: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L)

QUESTION 8: (A) (B) (C) (D) (E) (F)

QUESTION 9: A B C D E

QUESTION 10: (A) (B) (C) (D) (E)